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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/986,222	_	10/22/2001	Gilbert Christopher Sih	000276	4976
23696	7590	02/24/2005		EXAMINER	
Qualcomm	•	ated	VUONG, QUOCHIEN B		
Patents Dep 5775 Moreh		e	ART UNIT	PAPER NUMBER	
San Diego, CA 92121-1714			2685		
				DATE MAILED: 02/24/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

				W
		Application No.	Applicant(s)	
Office Action Summary		09/986,222	SIH ET AL.	
		Examiner	Art Unit	
		Quochien B Vuong	2685	
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet wi	th the correspondence address	
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provision of the provi	J. 1.136(a). In no event, however, may a re eply within the statutory minimum of thirt do will apply and will expire SIX (6) MON ute. cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 22	October 2001.		
2a)□	This action is FINAL . 2b)⊠ Th	nis action is non-final.		
3)□	Since this application is in condition for allow			
	closed in accordance with the practice under	r <i>Ex parte Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.	
Disposit	ion of Claims			
4)🖂	Claim(s) 1-13 is/are pending in the application	on.		
	4a) Of the above claim(s) is/are withdo	rawn from consideration.		
5)[Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-13</u> is/are rejected.			
	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and	I/or election requirement.		
Applicat	ion Papers			
9)[The specification is objected to by the Exami	ner.		
10)[The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.	
	Applicant may not request that any objection to the			
_	Replacement drawing sheet(s) including the corre	,		
11)	The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.	
Priority	under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	gn priority under 35 U.S.C. §	3 119(a)-(d) or (f).	
- 7	1. Certified copies of the priority docume	ents have been received.		
	2. Certified copies of the priority docume	ents have been received in A	pplication No	
	3. Copies of the certified copies of the pr	riority documents have been	received in this National Stage	
	application from the International Bure	eau (PCT Rule 17.2(a)).		
* ;	See the attached detailed Office action for a li	st of the certified copies not	received.	
Attachmer	nt(s)	•		
1) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 04/22/03.

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 04/22/2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Objections

2. Claim 8 is objected to because they include reference characters (540) which are not enclosed within parentheses.

Reference characters corresponding to elements recited in the detailed description of the drawings and used in conjunction with the recitation of the same element or group of elements in the claims should be enclosed within parentheses so as to avoid confusion with other numbers or characters which may appear in the claims. See MPEP § 608.01(m).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Hyuk

 Jun Oh et al. ("An adaptive channel estimation scheme for DS-CDMA systems"

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VEHICLE TECHNOLOGY CONFERENCE, No.6, 24-28 September 2000, pages 2839-2843, XP010525099, Boston).

Regarding claims 1 and 9, Oh et al. disclose a method and system for improving the reception of a signal in a wireless communications device (WCD), comprising the steps of: (a) estimating the velocity of the WCD; and (b) adjusting a filter bandwidth in the WCD in response to the estimated velocity, to mitigate the introduction of noise and distortion to the signal (see abstract, sections 1 and 3, and figures 1 and 2).

As to claims 2 and 10, Oh et al. disclose step (b) comprises the steps of:

- (1) increasing the filter bandwidth as the estimated velocity increases; and
- (2) decreasing the filter bandwidth as the estimated velocity decreases (section 3).

As to claim 3, Oh et al. disclose steps (a) and (b) are performed at periodicallyoccurring time increments.

As to claims 4 and 11, Oh et al. disclose that it is well known for using level crossing rate for estimating the velocity of the WCD (section 1) even though Oh et al. use a different method for estimating the velocity of the WCD.

As to claims 5 and 12, Oh et al. disclose the signal is a pilot signal (see abstract).

As to claims 6 and 13, Oh et al. disclose the step (b) comprises the steps of: (1) providing a plurality of predetermined bandwidths, wherein each predetermined bandwidth corresponds to a particular velocity range; and (2) setting the filter bandwidth to one of the plurality of predetermined bandwidths that corresponds to the estimated velocity (see section 3).

As to claim 7, Oh et al. disclose step (1) includes the step of providing a plurality of tilter components, wherein each tilter component has a corresponding bandwidth (see section 3).

As to claim 8, Oh et al. disclose step (1) includes the step of providing a lookup table that translates a velocity estimate into one or more filter parameters, wherein the one or more filter parameters determine the filter bandwidth (see section 3).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ling (US 5,329,547) discloses a method and apparatus for coherent communication in a spread spectrum communication system.

Atarius et al. (US 6,373,882) disclose motion estimation for a CDMA mobile station.

Jin (US 6,658,045) discloses CDMA communications system adaptive to mobile unit speed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quochien B Vuong whose telephone number is (703) 306-4530. The examiner can normally be reached on M-F 9:30-18:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (703) 305-4385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

QUOCHIEN B. YUONG PRIMARY EXAMINER

auther be Unong

Quochien B. Vuong

February 18, 2005.